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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,312	10/14/2005	Georg Markowz	1-17149	1724
	7590 03/13/200 & MELHORN, LLC		EXAMINER	
FOUR SEAGA	TE - EIGHTĤ FLOOI		LANGEL, WAYNE A	
TOLEDO, OH 43604			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			03/13/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/553,312	MARKOWZ ET AL.		
Office Action Summary	Examiner	Art Unit		
	Wayne Langel	1793		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tirwill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 29 L This action is FINAL . 2b) ☑ This Since this application is in condition for allowed closed in accordance with the practice under the second seco	s action is non-final. ance except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 24-44 is/are pending in the application 4a) Of the above claim(s) is/are withdrate 5) Claim(s) is/are allowed. 6) Claim(s) 24-44 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or comparison.	awn from consideration.			
9)☐ The specification is objected to by the Examin	er.			
10) The drawing(s) filed on is/are: a) accomposition and accomposition accomposition and accomposition accomposition and accomposition acc	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F 6) Other:	ate		

Art Unit: 1793

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 24-44 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 25-44, there is no clear antecedent basis for "the device in accordance with claim 24". In claim 26, "one of claim 24" is indefinite. In claim 42, there is no antecedent basis for "the synthesis process". In claim 24, it is indefinite as to whether the limitations recited in the last six lines are positively recited, since they are in a "whereby" clause and would not be a necessary result of the limitations recited before such "whereby" clause. In lines 11 and 12, respectively, it is indefinite as to what would constitute the "four-fold area" and the "circumferential length of the cross section of free flow". In claim 40, there is no antecedent basis for "the process".

Claims 24-44 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification does not enable one to provide a microreactor wherein the quotient of the four-fold area to the circumferential length of the cross section of free

flow' of smaller than 4000 microns. Paragragh [0011] of the specification discloses that the hydraulic diameter is less than 4000 microns, but there is no enabling disclosure to provide a hydraulic diameter which is "defined as the quotient of the four-fold area to the circumferential length of the cross section of free flow in the reaction chambers".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Langel whose telephone number is 571-272-1353. The examiner can normally be reached on Monday through Friday, 8 am - 3:30 pm Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Primary Examiner, Art Unit 1793